

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

All claims Previously being amended are shown with deleted text struck-through or double bracketed and new text underlined. Additionally, the status of each claim is indicated in parenthetical expression following the claim number.

WHAT IS CLAIMED IS:

1. *(Original)* A nanotube ink comprising a suspension of carbon nanotubes, wherein the carbon nanotubes are operable for undergoing photoluminescence and yielding emission within a pre-determined range of wavelengths when irradiated with radiation in the visible region of the EM spectrum, and wherein the nanotube ink is formulated for adhesion to a substrate surface when such a surface is printed with said nanotube ink.
2. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes are selected from the group consisting of single-wall carbon nanotubes, multi-wall carbon nanotubes, double-wall carbon nanotubes, and combinations thereof.
3. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes comprise single-wall carbon nanotubes.
4. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes comprise nanotubes having diameters less than about 3 nm.
5. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the carbon nanotubes within the nanotube ink are substantially homogeneous with respect to their photoluminescence properties.
6. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the carbon nanotubes within the nanotube ink comprise an artificially-generated population of single-wall carbon nanotubes of different nanotube species, such artificial generation provided by carbon nanotube separation techniques.

7. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the suspension comprises a liquid medium selected from the group consisting of water, organic solvents, supercritical fluids, and combinations thereof.
8. *(Original)* The nanotube ink of Claim 7, wherein the suspension further comprises surfactant.
9. *(Previously amended)* The nanotube ink of ~~Claims 1-7, or 8~~ Claim 3 further comprising an additive selected from the group consisting of traditional fluorescent inks, dyes, binders, polymeric material, nanoparticles, magnetic materials, and combinations thereof.
10. *(Previously amended)* The nanotube ink of ~~Claims 1-8, or 9~~ Claim 3, wherein the pre-determined range of wavelengths are in the near infrared.
11. - 75. (Cancelled)